

# CALIFORNIA STATE LIBRARY

## Z39.50 SERVER SPECIFICATIONS

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### Introduction and Contact Information

This document provides detailed technical information regarding the California State Library's implementation of its Z39.50 server. The Sirsi Classic IR-Server conforms to the Z39.50-1992 (Version 2) standard and Level 0 of the Z39.89 standard. Send questions or correspondence to:

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The following details about the Sirsi Classic IR\_Server is based on information from the Sirsi Corporation web site,  
[http://www.sirsi.com/Sirsipdfs/classic\\_z3950.pdf](http://www.sirsi.com/Sirsipdfs/classic_z3950.pdf).

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### The California State Library Server:

*Domain name: vax.lib.state.ca.us (63.192.170.91) (Formerly 206.187.55.1)*

*Port: 210*

*Database Name: MARION (the online catalog of the California State Library, including the Sutro Library located in San Francisco, CA.)*

*Holdings File: CIRCLE\_ITEM\_FILE*

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## **Z39.50 Services Supported By The Sirsi Classic Server:**

Initialization  
Search  
Present  
Delete  
Access-control  
Resource-report  
Resource-control  
Trigger-resource-control

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### ***Initialization Service***

*Protocol Version : Z39.50-1992 (Version-2)*

*Options Supported :*

*Search  
Present  
Delete  
Access-control  
Resource-report  
Resource-control  
Trigger-resource-control*

*Preferred Message Size :*

*IR-Server prefers a message size of 65,535 bytes (64 K). It will accept, however, a maximum preferred message size of 262,143 bytes (256 K).*

*Maximum Record Size :*

*IR-Server will accept a maximum record size of 262,143 bytes (256 K).*

*ID Authentication :*

*Although the IR Server supports Anonymous and Open User Id/Authentication types, at this time User ID and password are not required by the California State Library server.*

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### ***Search Service***

*Result Set Name*

*In addition to 'default', IR-Server can maintain a maximum of 128 named result sets per Z-association. Result set names may have a maximum length of 23 characters.*

*Database Names*

*IR-Server supports searching one Classic database at a time, not combined.*

*Generic "CIRCLE\_ITEM\_FILE" database is the name IR-Server refers to in order to provide item and circulation information.*

*Element Set Names*

*Only generic element set names are supported at this time. The list is detailed below in Element Set Names Available.*

*Preferred Record Syntax*

*IR-Server supports a subset of public and private Z39.50 record syntaxes. Details follow under Record Syntaxes Available.*

*Query types*

*Type 1 and Type 101 (proximity) are supported.*

*Attribute Set ID*

*Bib-1 only is supported.*

*Operand*

*The Result-set-id may be used in the Operand (for qualifying searches).*

*Operators Supported*

*AND OR AND-NOT*

*Proximity*

*Right proximity (within)*

*Right or left proximity (near).*

*A unit may be a word or phrase.*

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### **Present Service**

#### *Element Set Names*

*Only generic element set names are supported at this time. The list is detailed below in Element Set Names Available*

#### *Preferred Record Syntax*

*IR-Server supports a subset of public and private Z39.50 record syntaxes. Details follow under Record Syntaxes Available.*

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### **Delete Service**

*IR-Server supports both bulk and result sets list delete operations.*

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### **Access-control Service**

*IR-Server will accept Access-control response messages, but does not send requests.*

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### **Resource-report Service**

#### *Preferred Resource Report Format*

*IR-Server provides a resource report using the Resource-1 resource report format. The report contains two estimates: the session's incurred costs so far as well as the session's total time duration (as of the time of report request).*

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### **Resource-control Service**

*IR-Server will accept Resource-control request messages, but does not send responses.*

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### **Trigger-resource-control Service**

*IR-Server will accept Trigger-resource-control request messages, but will not actually trigger a 'resource-control' request back to the client (as a consequence).*

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### **Supported Bib-I Attributes**

IR-Server supports, for each defined Classic system search type, the following bib-I attribute combinations. Values in gray cells are optional and do not need to be specified. When more than one is available, (D) indicates the implicit default value implemented by the server. Similarly, (P) indicates the preferred Structure attribute value, when more than one is eligible.

Bib-I Attribute combinations							
Classic	Search Types	Use	Relation	Position	Structure	Truncation	Compl.
	Title	4-Title	3-Equal	3-Any	1-Phrase (P) 2-Word 6-Word list (D)	100-Do not truncate (D) 101-Proc.#	I-Inc. subfield
	ISBN <sup>1</sup>	7-ISBN	3-Equal	3-Any	2-Word	100-Do not truncate (D) 101-Proc.#	I-Inc. subfield
	ISSN <sup>2</sup>	8-ISSN	3-Equal	3-Any	2-Word	100-Do not truncate (D) 101-Proc.#	I-Inc. subfield
	LCCN	9-LCCN	3-Equal	3-Any	2-Word	100-Do not truncate (D) 101-Proc.#	I-Inc. subfield
	Reference	<b>1007-Identifier -- standard</b> 5014-SIRSI local reference number (see note below)	3-Equal	3-Any	2-Word	100-Do not truncate (D) 101-Proc.#	I-Inc. subfield
	Local call number	53-Local call number	3-Equal	3-Any	2-Word	100-Do not truncate (D) 101-Proc.#	I-Inc. subfield
	Subject	21-Subject Heading	3-Equal	3-Any	1-Phrase (P) 2-Word 6-Word list (D)	100-Do not truncate (D) 101-Proc.#	I-Inc. subfield
	Imprint	59-Place publication	3-Equal	3-Any	1-Phrase (P) 2-Word 6-Word list (D)	100-Do not truncate (D) 101-Proc.#	I-Inc. subfield
	Notes	63-Note	3-Equal	3-Any	1-Phrase (P) 2-Word 6-Word list (D)	100-Do not truncate (D) 101-Proc.#	I-Inc. subfield
	Author	1003-Author	3-Equal	3-Any	1-Phrase (P) 2-Word 6-Word list (D) 102-Name (un-normalized)	100-Do not truncate (D) 101-Proc.#	I-Inc. subfield
	Default numeric	30-Date 32-Date of acquisition 54-Code -- language 55-Code -- geographic area 56-Code -- institution 1011-Date/time added to database 1012-Date/time last modified 1013-Authority/format identifier	3-Equal	3-Any	2-Word	100-Do not truncate (D) 101-Proc.#	I-Inc. subfield
	Default non numeric	1016-Any	3-Equal	3-Any	1-Phrase (P) 2-Word 6-Word list (D) 102-Name (un-normalized)	100-Do not truncate (D) 101-Proc.#	I-Inc. subfield
	Local number	5020-SIRSI Local -- Database Control Number	3-Equal	3-Any	2-Word	100-Do not truncate (D) 101-Proc.#	I-Inc. subfield

<sup>1</sup>The ISBN should be entered without dashes.

<sup>2</sup>The ISSN should be entered without dashes.

## **Element Set Names Available**

Generic element set names, per category, are as follow:

### MARC related element set names:

- 'B' for Brief MARC records, which includes the following MARC tags:

{ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 18, 20, 22, 24, 27, 28, 33, 34, 40, 41, 42, 43, 50, 51, 52, 66, 86, 88, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 110, 111, 130, 150, 151, 222, 240, 243, 245, 246, 247, 250, 254, 255, 256, 257, 260, 261, 262, 300, 305, 306, 310, 315, 340, 362, 400, 410, 410, 411, 490, 506, 508, 511, 515, 525, 533, 534, 547, 550, 580, 600, 610, 611, 630, 650, 651, 653, 654, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 710, 711, 730, 740, 765, 772, 773, 775, 777, 780, 785, 800, 810, 811, 830, 840, 852 }

- 'F' for Full MARC records (F is the default)

### SIRSI's implementation of Multimedia items element set names:

- 'TEXT-0' for SIRSI-Text items inquiry
- 'TEXT[-page]' for SIRSI-Text items retrieval, where 'page' is the page number to retrieve
- 'IMAGE-0' for SIRSI-Image items inquiry
- 'IMAGE' for SIRSI-Image items retrieval records
- 'SOUND-0' for SIRSI-Sound items inquiry
- 'SOUND' for SIRSI-Sound items retrieval records

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## **Record Syntaxes Available**

IR-Server supports the following Z39.50 public syntaxes:

US-MARC (default)

IR-Server also supports the following SIRSI local record syntaxes:

SIRSI-Holdings, SIRSI-Text, SIRSI-Image, SIRSI-Sound, SIRSI-Service, SIRSI-LocTranslation

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## **Supported Diagnostic Sets**

Bib-1 is the default diagnostic set supported. General format of diagnostics consists in a diagnostic code followed by a contextual description.

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## **Supported Z39.50 Profiles**

IR-Server conforms with the following Z39.50 profiles:

- ATS-1
- Z39.50 over TCP